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TRANSMITTAL LETTER TO THE UNITED  
STATES DESIGNATED/ELECTED OFFICE  
(DO/EO/US) CONCERNING A FILING  
UNDER 35 U.S.C. 371

31 May 2005

Attorney Docket No.  
0380-P03627US0

U.S. Application No. (If Known)  
Not yet assigned 10/537258

Express Mail Label No.:  
EV374764423US

Int'l Application No.  
PCT/GB2003/005239

Int'l Filing Date  
1 December 2003

Priority Date Claimed  
2 December 2002

TITLE OF INVENTION  
Fish Disease Models and Uses Thereof

Applicant(s) for DO/EO/US  
GOLDSMITH, Paul; FLEMING, Angeleen, Louise; RICHARDS, Andrew, John, McGlashan; JONES, Derek, Thomas, Edward; HARRIS, William, Anthony

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

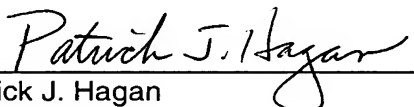
**Items 11 to 20 below concern document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:
  - Certificate of Mailing by Express Mail Under 37 C.F.R. §1.10
  - Copy of Form PCT/IB/308
  - Check in the amount of \$2,250

|   |              |  |         |                                |  |
|---|--------------|--|---------|--------------------------------|--|
| U.S. Application No.<br>Not yet assigned  |              | International Application No.<br>PCT/GB2003/005239 |         | Docket No.<br>0380-P03627US00  |  |
| The following fees are submitted:   |              |  |         | JC17 Rec'd PCT/PTO 31 MAY 2005 |  |
| 21. [X] BASIC NATIONAL FEE .....  |              | \$300  |         | \$300                          |  |
| 22. [X] Examination Fee   |              |  |         |                                |  |
| If international preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) .....  |              | \$100  |         | \$200                          |  |
| All other situations .....  |              | \$200  |         |                                |  |
| 23. [X] Search Fee  |              |  |         |                                |  |
| Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO as a International Searching Authority. ....   |              | \$100  |         |                                |  |
| International Search Report prepared by International Search Authority other than USPTO, but provided to Office by Applicant(s) .....   |              | \$400  |         |                                |  |
| All other situations .....  |              | \$500  |         | \$500                          |  |
| Total of 21, 22, 23   |              |  |         | \$1,000                        |  |
| [ ] Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program filed in an electronic medium).<br>Total Sheets      Extra Sheets      No. of each add'l 50 (round up to whole number)<br>-100 =                      /50 =                      x \$250 |              |  |         | \$0                            |  |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date   |              |  |         | \$0                            |  |
| Claims  | Number Filed | Number Extra                                       | Rate    |                                |  |
| Total Claims  | 41 -20       | = 21   | 50      | \$1,050                        |  |
| Independent Claims  | 4 -3         | = 1  | 200     | \$200                          |  |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |  | + \$360 |                                |  |
| <b>TOTAL OF ABOVE CALCULATIONS</b>  |              |  |         | \$2,250                        |  |
| [ ] Applicant claims small entity status. See 37 CFR 1.27.<br>The fees indicated above are reduced by ½   |              |  |         |                                |  |
| <b>SUBTOTAL =</b>   |              |  |         | \$2,250                        |  |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f))  |              |  |         | \$0                            |  |
| <b>TOTAL NATIONAL FEE =</b>   |              |  |         | \$2,250                        |  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property   |              |  |         | \$0                            |  |
| <b>TOTAL FEES ENCLOSED =</b>  |              |  |         | \$2,250                        |  |

- a. [X] A check in the amount of \$2,250 to cover the above fees is enclosed
- b. [ ] Please surcharge Deposit Account No. 04-1406 in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 04-1406. A duplicate copy of this sheet is enclosed.

SEND ALL CORRESPONDENCE TO: **CUSTOMER NUMBER 000110** to the attention of the individual listed below.

  
Patrick J. Hagan  
Registration No. 27,643

1537258  
JC17 Rec'd PCT/PTO 31 MAY 2005

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**CERTIFICATE OF MAILING  
BY EXPRESS MAIL UNDER 37 C.F.R. \$1.10**

NUMBER OF EXPRESS MAIL MAILING LABEL: EV374764423US  
DATE OF DEPOSIT WITH POSTAL SERVICE: May 31, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. \$1.10 on the date indicated above, and is addressed to the COMMISSIONER OF PATENTS, P.O. Box 1450, Alexandria, VA 22313-1450.

Caren Burgoon

Typed Name of Person Mailing Paper or Fee

Caren Burgoon

Signature of Person Mailing Paper or Fee

Re: New Patent Application  
(National Phase of International  
Patent Application No. PCT/GB2003/005239  
Entitled: FISH DISEASE MODELS AND USES THEREOF  
International Filing Date: 1 December 2003  
Earliest Claimed Priority Date: 2 December 2002  
Our File No. 0380-P03627US0

**Enclosures:**

- Transmittal Letter to the DO/EO/US Concerning a Filing Under 35 U.S.C. §371 (in duplicate)
- First Preliminary Amendment
- Copy of Form PCT/IB/308
- Check in the amount of \$2,250